Email maxluoxiii@gmail.com
Phone 630-432-3267

913 Ashford Lane
Westmont, IL 60559

Maxiwell Luo

Education		
Education	**University of Illinois at Urbana-Champaign** Bachelor of Science, Computer Science + Master of Computer Science GPA: 3.67/4.0	Urbana-Champaign, IL Graduation: May 2021
	Hinsdale Central High School Valedictorian GPA: 5.93/5.0	Hinsdale, IL August 2013 – May 2017
Relevant Courses	Applied Cryptography (IP); Advanced Computer Security (IP); ML for Sys, Networks, & Security (IP); Machine Learning; Computer Security II; Applied Parallel Programming; Interactive Computer Graphics; Programming Languages and Compilers; Algorithms; Top Down Video Game Design; Game Dev Process; Communication Networks; Computer Security I; Algorithms & Models of Computation; UI Design; Probability and Statistics; System Programming; Applied Linear Algebra; Numerical Methods I; Computer Architecture; Data Structures	
Work Experience	**8i, Software Engineering Intern** Developed features for an internal MPEG-DASH player to support the company's proprietary mesh, video, and audio codec including seek, caching, and adaptive bitrate selection using the C++ Qt Framework	Chicago, IL May 2020 – August 2020
	Eagle Seven, Software Development Intern — Wrote software to calculate network performance metrics of high-frequency trade engines — Improved the automation, comparison, and real-time tracking capabilities of the performance testing framework through InfluxDB and Grafana to drive future development	Chicago, IL May 2019 – August 2019
	Fermilab, Software Intern Using C, implemented and analyzed the effectiveness of data compression algorithms for use in data collection during experiments	Batavia, IL June 2016 – July 2016
	Chess Tutor Trained children in one-on-one sessions to improve their chess skills and prepare them for more competitive levels of chess	Woodridge, IL July – August 2016 – 2017
Projects	**neuralMario** Implemented a NEAT (NeuroEvolution of Augmenting Topologies) algorithm to create an AI that could play Super Mario World	Hinsdale, IL May 2017
Activities	**CS 225 Data Structures, Teaching Assistant** Lead discussions with students to foster educational dialogue concerning the use of data structures in computer science	Urbana-Champaign, IL August 2020 – Present
	UIUC SigPWNy Collaborated with peers to teach one another computer security topics and techniques to exploit security vulnerabilities	Urbana-Champaign, IL 2017 – Present
	SAIL 2018 Taught basic programming language implementation to high school students	Urbana-Champaign, IL April 2018
	Robotics Team — Designed and built robots to compete in the FIRST Robotics Competition on team DevilStorm Robotics — Trained new members in fundamental programming techniques	Hinsdale, IL 2013 – 2017
Skills	**Proficient** in C/C++, Java, Python **Intermediate** knowledge of Verilog, HTML/CSS, Javascript (Angular), InfluxDB, Grafana, Unity, Unreal Engine, WebGL, Android app development, Qt Framework, Chinese **Basic** skills with Rust, OCaml, x86 Assembly, Japanese	